## **EAST Search History**

## **EAST Search History (Prior Art)**

| Ref# | Hits  | Search Query                                   | DBs                | Default<br>Operator | Plurals | Time Stamp          |
|------|-------|--|--------------------|---------------------|---------|---------------------|
| L1   | 3     | ("5732330"  <br>"6208875"   "6584304").<br>PN. | US-PGPUB;<br>USPAT | OR                  | ON      | 2009/08/31<br>08:35 |
| L2   | 0     | mixer and amplif\$6 and ooscillator            | US-PGPUB;<br>USPAT | OR                  | ON      | 2009/08/31<br>08:35 |
| L3   | 31709 | mixer and amplif\$6 and oscillator             | US-PGPUB;<br>USPAT | OR                  | ON      | 2009/08/31<br>08:35 |
| L4   | 10169 | L3 and "455".clas.                             | US-PGPUB;<br>USPAT | OR                  | ON      | 2009/08/31<br>08:35 |
| L5   | 2231  | L4 and (frequency near2 synthesiz\$3)          | US-PGPUB;<br>USPAT | OR                  | ON      | 2009/08/31<br>08:35 |
| L6   | 664   | 455/76.ccls.                                   | US-PGPUB;<br>USPAT | OR                  | ON      | 2009/08/31<br>08:35 |
| L7   | 98    | 455/85.ccls.                                   | US-PGPUB;<br>USPAT | OR                  | ON      | 2009/08/31<br>08:35 |
| L8   | 309   | 455/86.cds.                                    | US-PGPUB;<br>USPAT | OR                  | ON      | 2009/08/31<br>08:35 |
| L9   | 122   | 455/87.cds.                                    | US-PGPUB;<br>USPAT | OR                  | ON      | 2009/08/31<br>08:35 |
| L10  | 516   | 455/118.ccls.                                  | US-PGPUB;<br>USPAT | OR                  | ON      | 2009/08/31<br>08:35 |
| L11  | 117   | 455/147.ccls.                                  | US-PGPUB;<br>USPAT | OR                  | ON      | 2009/08/31<br>08:35 |
| L12  | 74    | 455/148.ccls.                                  | US-PGPUB;<br>USPAT | OR                  | ON      | 2009/08/31<br>08:35 |
| L13  | 169   | 455/165.1.ccls.                                | US-PGPUB;<br>USPAT | OR                  | ON      | 2009/08/31<br>08:35 |
| L14  | 282   | 455/183.1.ccls.                                | US-PGPUB;<br>USPAT | OR                  | ON      | 2009/08/31<br>08:35 |
| L15  | 948   | 455/323.ccls.                                  | US-PGPUB;<br>USPAT | OR                  | ON      | 2009/08/31<br>08:35 |
| L16  | 435   | 455/324.ccls.                                  | US-PGPUB;<br>USPAT | OR                  | ON      | 2009/08/31<br>08:35 |

| L17 | 10     | ("20010021662"  <br>"20060025100"  <br>"20060223483"  <br>"4470147"   "4731796"<br>  "6091963"  <br>"6335952"   "6397044"<br>  "6480709"  <br>"6735422").PN. | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:35 |
|-----|--------|--|--------------------|----|----|---------------------|
| L18 | 2750   | L7 L8 L9 L10 L11 L12<br>L13 L14 L15 L16  | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:35 |
| L19 | 1529   | L3 and L18   | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:35 |
| L20 | 1      | 10/572,725.app.  | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:35 |
| L21 | 3169   | (baseband same (direct<br>near conver\$5)) (zero<br>near (if (intermediate<br>near frequency)))  | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:35 |
| L22 | 31709  | mixer and amplif\$6 and oscillator   | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:35 |
| L23 | 10169  | L22 and "455".clas.  | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:35 |
| L24 | 2231   | L23 and (frequency near2 synthesiz\$3)   | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:35 |
| L25 | 332    | L21 and L24  | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:35 |
| L26 | 22377  | amplifier same (input<br>near2 (impedence resist<br>\$6))  | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:35 |
| L27 | 104    | L26 and L21  | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:35 |
| L28 | 1982   | Ic near tank   | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:35 |
| L29 | 280    | L28 and "455".clas.  | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:35 |
| L30 | 229840 | L28 (oscillator)   | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:35 |
| L31 | 3761   | L30 with (digital near2<br>(adjust\$3 tun\$3 control<br>\$4 var\$4))   | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:35 |
| L32 | 585    | L31 and "455".clas.  | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:35 |
| L33 | 32     | L30 with (digital near2<br>(adjust\$3 tun\$3 control<br>\$4 var\$4) near2<br>(inductor capacitor))   | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:35 |

| L34 | 454   | L30 same (digital\$2<br>near2 (adjust\$3 tun\$3<br>control\$4 var\$4) with<br>(inductor capacitor))  | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:35 |
|-----|-------|--|--------------------|----|----|---------------------|
| L35 | 80    | L34 and "455".clas.  | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:35 |
| L36 | 3     | ("5732330"  <br>"6208875"   "6584304").<br>PN.   | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:35 |
| L37 | 0     | mixer and amplif\$6 and ooscillator  | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:35 |
| L38 | 31709 | mixer and amplif\$6 and oscillator   | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:35 |
| L39 | 10169 | L38 and "455".clas.  | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:35 |
| L40 | 2231  | L39 and (frequency near2 synthesiz\$3)   | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:35 |
| L41 | 664   | 455/76.ccls.   | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:35 |
| L42 | 98    | 455/85.ccls.   | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:35 |
| L43 | 309   | 455/86.ccls.   | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:35 |
| L44 | 122   | 455/87.ccls.   | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:35 |
| L45 | 516   | 455/118.ccls.  | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:35 |
| L46 | 117   | 455/147.ccls.  | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:35 |
| L47 | 74    | 455/148.ccls.  | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:35 |
| L48 | 169   | 455/165.1.ccls.  | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:35 |
| L49 | 282   | 455/183.1.ccls.  | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:35 |
| L50 | 948   | 455/323.ccls.  | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:35 |
| L51 | 435   | 455/324.ccls.  | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:35 |
| L52 | 10    | ("20010021662"  <br>"20060025100"  <br>"20060223483"  <br>"4470147"   "4731796"<br>  "6091963"  <br>"6335952"   "6397044"<br>  "6480709"  <br>"6735422").PN. | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:35 |

| L53 | 2750   | L42 L43 L44 L45 L46<br>L47 L48 L49 L50 L51  | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:35 |
|-----|--------|---|--------------------|----|----|---------------------|
| L54 | 1529   | L38 and L53   | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:35 |
| L55 | 1      | 10/572,725.app.   | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:35 |
| L56 | 3169   | (baseband same (direct<br>near conver\$5)) (zero<br>near (if (intermediate<br>near frequency)))     | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:35 |
| L57 | 31709  | mixer and amplif\$6 and oscillator  | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:35 |
| L58 | 10169  | L57 and "455".clas.   | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:35 |
| L59 | 2231   | L58 and (frequency near2 synthesiz\$3)  | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:35 |
| L60 | 332    | L56 and L59   | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:35 |
| L61 | 22377  | amplifier same (input<br>near2 (impedence resist<br>\$6))   | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:35 |
| L62 | 104    | L61 and L56   | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:35 |
| L63 | 1982   | lc near tank  | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:35 |
| L64 | 280    | L63 and "455".clas.   | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:35 |
| L65 | 229840 | L63 (oscillator)  | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:35 |
| L66 | 3761   | L65 with (digital near2<br>(adjust\$3 tun\$3 control<br>\$4 var\$4))                                | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:35 |
| L67 | 585    | L66 and "455".clas.   | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:35 |
| L68 | 32     | L65 with (digital near2<br>(adjust\$3 tun\$3 control<br>\$4 var\$4) near2<br>(inductor capacitor))  | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:35 |
| L69 | 454    | L65 same (digital\$2<br>near2 (adjust\$3 tun\$3<br>control\$4 var\$4) with<br>(inductor capacitor)) | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:35 |
| L70 | 80     | L69 and "455".clas.   | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:35 |
| L71 | 1      | "6208875".pn.   | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:35 |

| L72 | 1    | "20040048591".pn.  | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:35 |
|-----|------|--|--------------------|----|----|---------------------|
| L73 | 1    | "6072372".pn.  | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:35 |
| L74 | 11   | ("20030114129"  <br>"20050014476"  <br>"4541119"   "5821820"<br>  "5929708"  <br>"5929716"   "6215988"<br>  "6567488"  <br>"6708044"   "6766178"<br>  "6993314").PN. | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:35 |
| L75 | 0    | (voltage and controlled and oscillartor and varactor and phase and lock\$3 and transistor\$2 and source and gate).   | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:35 |
| L76 | 31   | (voltage and controlled<br>and oscillator and<br>varactor and phase and<br>lock\$3 and transistor\$2<br>and source and gate).<br>clm.                                | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:35 |
| L77 | 1803 | oscillator near4<br>varactor   | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:35 |
| L78 | 97   | oscillator near4<br>varactor and multiband   | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:35 |
| L79 | 219  | oscillator near4 (amp<br>amplifier) and<br>multiband   | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:35 |
| L80 | 144  | oscillator near4 (amp<br>amplifier) and<br>multiband and control<br>near4 voltage  | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:36 |
| L81 | 0    | 455/180.4.ccls. and varator  | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:36 |
| L82 | 55   | 455/180.4.ccls. and varactor   | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:36 |
| L83 | 45   | 455/180.4.ccls. and varactor and (amp amplifier)   | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:36 |
| L84 | 8    | 455/180.4.ccls. and varactor and (amp amplifier) and phase near3 locked  | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:36 |

| L85  | 37    | varactor and (amp<br>amplifier) same phase<br>near4 locked and<br>multiband | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:36 |
|------|-------|---|--------------------|----|----|---------------------|
| L86  | 14    | L85 and "455".clas.   | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:36 |
| L87  | 37    | varactor and (amp<br>amplifier) same phase<br>near4 locked and<br>multiband | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:36 |
| L88  | 201   | (amp amplifier) same<br>(phase near4 locked<br>pll) and multiband           | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:36 |
| L89  | 664   | 455/76.ccls.  | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:36 |
| L90  | 98    | 455/85.ccls.  | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:36 |
| L91  | 309   | 455/86.ccls.  | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:36 |
| L92  | 122   | 455/87.ccls.  | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:36 |
| L93  | 516   | 455/118.ccls.   | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:36 |
| L94  | 117   | 455/147.ccls.   | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:36 |
| L95  | 74    | 455/148.ccls.   | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:36 |
| L96  | 169   | 455/165.1.ccls.   | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:36 |
| L97  | 282   | 455/183.1.ccls.   | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:36 |
| L98  | 948   | 455/323.ccls.   | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:36 |
| L99  | 435   | 455/324.ccls.   | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:36 |
| L100 | 1     | "5526377".pn.   | US-PGPUB;<br>USPAT | OR | ON | 2009/08/31<br>08:36 |
| S1   | 3     | ("5732330"  <br>"6208875"   "6584304").<br>PN.                              | US-PGPUB;<br>USPAT | OR | ON | 2008/01/27<br>16:54 |
| S2   | 0     | mixer and amplif\$6 and ooscillator   | US-PGPUB;<br>USPAT | OR | ON | 2008/01/25<br>13:04 |
| S3   | 27624 | mixer and amplif\$6 and oscillator  | US-PGPUB;<br>USPAT | OR | ON | 2008/01/25<br>13:04 |
| S4   | 8876  | S3 and "455".clas.  | US-PGPUB;<br>USPAT | OR | ON | 2008/01/25<br>13:09 |

| S23 | 8876  | S22 and "455".clas.   | US-PGPUB;<br>USPAT | OR | ON | 2008/01/27<br>17:17 |
|-----|-------|---|--------------------|----|----|---------------------|
| S22 | 27624 | mixer and amplif\$6 and oscillator  | US-PGPUB;<br>USPAT | OR | ON | 2008/01/27<br>17:17 |
| S21 | 2451  | (baseband same (direct<br>near conver\$5)) (zero<br>near (if (intermediate<br>near frequency)))   | US-PGPUB;<br>USPAT | OR | ON | 2008/01/28<br>08:10 |
| S20 | 1     | 10/572,725.app.   | US-PGPUB;<br>USPAT | OR | ON | 2008/01/27<br>17:17 |
| S19 | 1317  | S3 and S18  | US-PGPUB;<br>USPAT | OR | ON | 2008/01/25<br>13:40 |
| S18 | 2440  | S7 S8 S9 S10 S11 S12<br>S13 S14 S15 S16   | US-PGPUB;<br>USPAT | OR | ON | 2008/01/25<br>13:39 |
| S17 | .10   | ("20010021662"   "20060025100"   "20060223483"   "4470147"   "4731796"   "6091963"   "6335952"   "6397044"   "6480709"   "6735422").PN. | US-PGPUB;<br>USPAT | OR | ON | 2008/01/25<br>13:39 |
| S16 | 387   | 455/324.ccls.   | US-PGPUB;<br>USPAT | OR | ON | 2008/01/25<br>13:34 |
| S15 | 802   | 455/323.ccls.   | US-PGPUB;<br>USPAT | OR | ON | 2008/01/25<br>13:34 |
| S14 | 265   | 455/183.1.ccls.   | US-PGPUB;<br>USPAT | OR | ON | 2008/01/25<br>13:30 |
| S13 | 153   | 455/165.1.ccls.   | US-PGPUB;<br>USPAT | OR | ON | 2008/01/25<br>13:30 |
| S12 | 71    | 455/148.ccls.   | US-PGPUB;<br>USPAT | OR | ON | 2008/01/25<br>13:30 |
| S11 | 106   | 455/147.ccls.   | US-PGPUB;<br>USPAT | OR | ON | 2008/01/25<br>13:30 |
| S10 | 449   | 455/118.ccls.   | US-PGPUB;<br>USPAT | OR | ON | 2008/01/25<br>13:30 |
| S9  | 111   | 455/87.ccls.  | US-PGPUB;<br>USPAT | OR | ON | 2008/01/25<br>13:30 |
| S8  | 284   | 455/86.ccls.  | US-PGPUB;<br>USPAT | OR | ON | 2008/01/25<br>13:11 |
| S7  | 84    | 455/85.ccls.  | US-PGPUB;<br>USPAT | OR | ON | 2008/01/25<br>13:11 |
| S6  | 595   | 455/76.ccls.  | US-PGPUB;<br>USPAT | OR | ON | 2008/01/25<br>13:34 |
| S5  | 1938  | S4 and (frequency near2 synthesiz\$3)   | US-PGPUB;<br>USPAT | OR | ON | 2008/01/25<br>13:05 |

| S24 | 1938   | S23 and (frequency near2 synthesiz\$3)  | US-PGPUB;<br>USPAT | OR | ON | 2008/01/27<br>17:17 |
|-----|--------|---|--------------------|----|----|---------------------|
| S25 | 242    | S21 and S24   | US-PGPUB;<br>USPAT | OR | ON | 2008/01/27<br>17:18 |
| S26 | 21022  | amplifier same (input<br>near2 (impedence resist<br>\$6))   | US-PGPUB;<br>USPAT | OR | ON | 2008/01/27<br>17:19 |
| S27 | 79     | S26 and S21   | US-PGPUB;<br>USPAT | OR | ON | 2008/01/27<br>17:19 |
| S28 | 1538   | lc near tank  | US-PGPUB;<br>USPAT | OR | ON | 2008/01/28<br>08:16 |
| S29 | 229    | S28 and "455".clas.   | US-PGPUB;<br>USPAT | OR | ON | 2008/01/28<br>08:11 |
| S30 | 203781 | S28 (oscillator)  | US-PGPUB;<br>USPAT | OR | ON | 2008/01/28<br>08:16 |
| S31 | 3247   | S30 with (digital near2<br>(adjust\$3 tun\$3 control<br>\$4 var\$4))                                | US-PGPUB;<br>USPAT | OR | ON | 2008/01/28<br>08:20 |
| S32 | 523    | S31 and "455".clas.   | US-PGPUB;<br>USPAT | OR | ON | 2008/01/28<br>08:18 |
| S33 | 27     | S30 with (digital near2<br>(adjust\$3 tun\$3 control<br>\$4 var\$4) near2<br>(inductor capacitor))  | US-PGPUB;<br>USPAT | OR | ON | 2008/01/28<br>08:36 |
| S34 | 332    | S30 same (digital\$2<br>near2 (adjust\$3 tun\$3<br>control\$4 var\$4) with<br>(inductor capacitor)) | US-PGPUB;<br>USPAT | OR | ON | 2008/01/28<br>08:37 |
| S35 | 66     | S34 and "455".clas.   | US-PGPUB;<br>USPAT | OR | ON | 2008/01/28<br>08:38 |
| S36 | 3      | ("5732330"  <br>"6208875"   "6584304").<br>PN.  | US-PGPUB;<br>USPAT | OR | ON | 2008/07/18<br>13:01 |
| S37 | 0      | mixer and amplif\$6 and ooscillator   | US-PGPUB;<br>USPAT | OR | ON | 2008/07/18<br>13:01 |
| S38 | 28893  | mixer and amplif\$6 and oscillator  | US-PGPUB;<br>USPAT | OR | ON | 2008/07/18<br>13:01 |
| S39 | 9269   | S38 and "455".clas.   | US-PGPUB;<br>USPAT | OR | ON | 2008/07/18<br>13:01 |
| S40 | 2013   | S39 and (frequency near2 synthesiz\$3)  | US-PGPUB;<br>USPAT | OR | ON | 2008/07/18<br>13:01 |
| S41 | 613    | 455/76.ccls.  | US-PGPUB;<br>USPAT | OR | ON | 2008/07/18<br>13:01 |
| S42 | 86     | 455/85.ccls.  | US-PGPUB;<br>USPAT | OR | ON | 2008/07/18<br>13:01 |

| S43 | 293   | 455/86.ccls.   | US-PGPUB;<br>USPAT | OR | ON | 2008/07/18<br>13:01 |
|-----|-------|--|--------------------|----|----|---------------------|
| S44 | 117   | 455/87.ccls.   | US-PGPUB;<br>USPAT | OR | ON | 2008/07/18<br>13:01 |
| S45 | 474   | 455/118.ccls.  | US-PGPUB;<br>USPAT | OR | ON | 2008/07/18<br>13:01 |
| S46 | 107   | 455/147.ccls.  | US-PGPUB;<br>USPAT | OR | ON | 2008/07/18<br>13:01 |
| S47 | 73    | 455/148.ccls.  | US-PGPUB;<br>USPAT | OR | ON | 2008/07/18<br>13:01 |
| S48 | 156   | 455/165.1.ccls.  | US-PGPUB;<br>USPAT | OR | ON | 2008/07/18<br>13:01 |
| S49 | 267   | 455/183.1.ccls.  | US-PGPUB;<br>USPAT | OR | ON | 2008/07/18<br>13:01 |
| S50 | 856   | 455/323.ccls.  | US-PGPUB;<br>USPAT | OR | ON | 2008/07/18<br>13:01 |
| S51 | 401   | 455/324.ccls.  | US-PGPUB;<br>USPAT | OR | ON | 2008/07/18<br>13:01 |
| S52 | 10    | ("20010021662"  <br>"20060025100"  <br>"20060223483"  <br>"4470147"   "4731796"<br>  "6091963"  <br>"6335952"   "6397044"<br>  "6480709"  <br>"6735422").PN. | US-PGPUB;<br>USPAT | OR | ON | 2008/07/18<br>13:01 |
| S53 | 2544  | S42 S43 S44 S45 S46<br>S47 S48 S49 S50 S51   | US-PGPUB;<br>USPAT | OR | ON | 2008/07/18<br>13:01 |
| S54 | 1388  | S38 and S53  | US-PGPUB;<br>USPAT | OR | ON | 2008/07/18<br>13:01 |
| S55 | 1     | 10/572,725.app.  | US-PGPUB;<br>USPAT | OR | ON | 2008/07/18<br>13:01 |
| S56 | 2650  | (baseband same (direct<br>near conver\$5)) (zero<br>near (if (intermediate<br>near frequency)))  | US-PGPUB;<br>USPAT | OR | ON | 2008/07/18<br>13:01 |
| S57 | 28893 | mixer and amplif\$6 and oscillator   | US-PGPUB;<br>USPAT | OR | ON | 2008/07/18<br>13:01 |
| S58 | 9269  | S57 and "455".clas.  | US-PGPUB;<br>USPAT | OR | ON | 2008/07/18<br>13:01 |
| S59 | 2013  | S58 and (frequency near2 synthesiz\$3)   | US-PGPUB;<br>USPAT | OR | ON | 2008/07/18<br>13:01 |
| S60 | 257   | S56 and S59  | US-PGPUB;<br>USPAT | OR | ON | 2008/07/18<br>13:01 |
| S61 | 21437 | amplifier same (input<br>near2 (impedence resist<br>\$6))  | US-PGPUB;<br>USPAT | OR | ON | 2008/07/18<br>13:01 |

| S62 | 84     | S61 and S56  | US-PGPUB;<br>USPAT | OR | ON | 2008/07/18<br>13:01 |
|-----|--------|--|--------------------|----|----|---------------------|
| S63 | 1655   | lc near tank   | US-PGPUB;<br>USPAT | OR | ON | 2008/07/18<br>13:01 |
| S64 | 239    | S63 and "455".clas.  | US-PGPUB;<br>USPAT | OR | ON | 2008/07/18<br>13:01 |
| S65 | 211585 | S63 (oscillator)   | US-PGPUB;<br>USPAT | OR | ON | 2008/07/18<br>13:01 |
| S66 | 3380   | S65 with (digital near2<br>(adjust\$3 tun\$3 control<br>\$4 var\$4))   | US-PGPUB;<br>USPAT | OR | ON | 2008/07/18<br>13:01 |
| S67 | 544    | S66 and "455".clas.  | US-PGPUB;<br>USPAT | OR | ON | 2008/07/18<br>13:01 |
| S68 | 28     | S65 with (digital near2<br>(adjust\$3 tun\$3 control<br>\$4 var\$4) near2<br>(inductor capacitor))   | US-PGPUB;<br>USPAT | OR | ON | 2008/07/18<br>13:01 |
| S69 | 376    | S65 same (digital\$2<br>near2 (adjust\$3 tun\$3<br>control\$4 var\$4) with<br>(inductor capacitor))  | US-PGPUB;<br>USPAT | OR | ON | 2008/07/18<br>13:01 |
| S70 | 70     | S69 and "455".clas.  | US-PGPUB;<br>USPAT | OR | ON | 2008/07/18<br>13:01 |
| S71 | 1      | "6208875".pn.  | US-PGPUB;<br>USPAT | OR | ON | 2008/11/06<br>11:45 |
| S72 | 1      | "20040048591".pn.  | US-PGPUB;<br>USPAT | OR | ON | 2008/11/06<br>11:46 |
| S73 | 1      | "6072372".pn.  | US-PGPUB;<br>USPAT | OR | ON | 2008/11/06<br>11:47 |
| S74 | 11     | ("20030114129"  <br>"20050014476"  <br>"4541119"   "5821820"<br>  "5929708"  <br>"5929716"   "6215988"<br>  "6567488"  <br>"6708044"   "6766178"<br>  "6993314").PN. | US-PGPUB;<br>USPAT | OR | ON | 2008/11/06<br>11:53 |
| S75 | 0      | (voltage and controlled<br>and oscillartor and<br>varactor and phase and<br>lock\$3 and transistor\$2<br>and source and gate).<br>clm.                               | US-PGPUB;<br>USPAT | OR | ON | 2008/11/06<br>13:25 |

| S76 | 28   | (voltage and controlled and oscillator and varactor and phase and lock\$3 and transistor\$2 and source and gate). | US-PGPUB;<br>USPAT | OR | ON | 2008/11/06<br>13:25 |
|-----|------|---|--------------------|----|----|---------------------|
| S77 | 1716 | oscillator near4<br>varactor  | US-PGPUB;<br>USPAT | OR | ON | 2008/11/06<br>13:26 |
| S78 | 92   | oscillator near4<br>varactor and multiband  | US-PGPUB;<br>USPAT | OR | ON | 2008/11/06<br>13:26 |
| S79 | 194  | oscillator near4 (amp<br>amplifier) and<br>multiband  | US-PGPUB;<br>USPAT | OR | ON | 2008/11/06<br>13:26 |
| S80 | 132  | oscillator near4 (amp<br>amplifier) and<br>multiband and control<br>near4 voltage                                 | US-PGPUB;<br>USPAT | OR | ON | 2008/11/06<br>13:27 |
| S81 | 0    | 455/180.4.ccls. and varator   | US-PGPUB;<br>USPAT | OR | ON | 2008/11/06<br>13:27 |
| S82 | 54   | 455/180.4.ccls. and varactor  | US-PGPUB;<br>USPAT | OR | ON | 2008/11/06<br>13:27 |
| S83 | 44   | 455/180.4.ccls. and varactor and (amp amplifier)  | US-PGPUB;<br>USPAT | OR | ON | 2008/11/06<br>13:27 |
| S84 | 8    | 455/180.4.ccls. and varactor and (amp amplifier) and phase near3 locked   | US-PGPUB;<br>USPAT | OR | ON | 2008/11/06<br>13:28 |
| S85 | 31   | varactor and (amp<br>amplifier) same phase<br>near4 locked and<br>multiband                                       | US-PGPUB;<br>USPAT | OR | ON | 2008/11/06<br>13:28 |
| S86 | 13   | S85 and "455".clas.   | US-PGPUB;<br>USPAT | OR | ON | 2008/11/06<br>13:28 |
| S87 | 31   | varactor and (amp<br>amplifier) same phase<br>near4 locked and<br>multiband                                       | US-PGPUB;<br>USPAT | OR | ON | 2008/11/06<br>13:29 |
| S88 | 181  | (amp amplifier) same<br>(phase near4 locked<br>pll) and multiband   | US-PGPUB;<br>USPAT | OR | ON | 2008/11/06<br>13:29 |
| S89 | 625  | 455/76.ccls.  | US-PGPUB;<br>USPAT | OR | ON | 2008/11/06<br>13:30 |
| S90 | 88   | 455/85.ccls.  | US-PGPUB;<br>USPAT | OR | ON | 2008/11/06<br>13:30 |
| S91 | 296  | 455/86.ccls.  | US-PGPUB;<br>USPAT | OR | ON | 2008/11/06<br>13:30 |

| S92  | 118 | 455/87.cds.     | US-PGPUB;<br>USPAT | OR | ON | 2008/11/06<br>13:30                     |
|------|-----|-----------------|--------------------|----|----|---|
| S93  | 486 | 455/118.ccls.   | US-PGPUB;<br>USPAT | OR | ON | 2008/11/06<br>13:30                     |
| S94  | 109 | 455/147.ccls.   | US-PGPUB;<br>USPAT | OR | ON | 2008/11/06<br>13:30                     |
| S95  | 73  | 455/148.ccls.   | US-PGPUB;<br>USPAT | OR | ON | 2008/11/06<br>13:30                     |
| S96  | 162 | 455/165.1.ccls. | US-PGPUB;<br>USPAT | OR | ON | 2008/11/06<br>13:30                     |
| S97  | 272 | 455/183.1.ccls. | US-PGPUB;<br>USPAT | OR | ON | 2008/11/06<br>13:30                     |
| S98  | 871 | 455/323.ccls.   | US-PGPUB;<br>USPAT | OR | ON | 2008/11/06<br>13:30                     |
| S99  | 406 | 455/324.ccls.   | US-PGPUB;<br>USPAT | OR | ON | 2008/11/06<br>13:30                     |
| S100 | 1   | "5526377".pn.   | US-PGPUB;<br>USPAT | OR | ON | 2008/11/06<br>13:49                     |
|      |     |                 |                    |    |    | · · · · · · · • · · · · • · · · · · · · |

## **EAST Search History (Interference)**

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8/31/2009 8:39:16 AM

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